Quizz #3	Nom							
Q1 - What's a relational database?								
Q2 - What are the different "table relationships" you know?								
Q3 - Consider this e-library service. An author, defined by his name have several books. A book, defined by its title and publishing year, has one author only. What's this simple database scheme. Please draw it!								
Q4 - A user, defined by his email, can read several books. A book (e-book!!) can be read by several user. We also want to keep track of reading dates. Improve your e-library DB scheme								
with relevant tables and relationships.	, , ,							
Q5 - What's the language to make queries to a database?								

Q6 - What's the simple query to get books written before 1985? Q7 - What's the simple query to get 3 last books written by Jules Verne? Q8 - What's the purpose of ActiveRecord? Q9 - What's a migration? How do you run a migration? Q10 - Complete migrations to create your e-library database. class CreateBooks < ActiveRecord::Migration</pre> def up create table :books do |t| end end end class CreateAuthors < ActiveRecord::Migration</pre> def change end end class CreateUsers < ActiveRecord::Migration</pre> def change

end end

Q11 - Write a migration to add a column category to the books table.

```
class AddCategoryToBook < ActiveRecord::Migration
  def change
  end
end</pre>
```

Q12 - Define an ActiveRecord model for each table of your DB. Add the ActiveRecord associations between models.

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Q13 - Complete following code using the relevant ActiveRecord methods.

```
#1. Add your favorite author to the DB

#2. Get all authors

#3. Get author with id=8

#4. Get author with name="Jules Verne", store it in a variable: jules

#5. Get Jules Verne's books

#6. Create a new book "20000 Leagues under the Seas", it's missing in DB.

# Store it in a variable: twenty_thousand

#7. Add Jules Verne as this book's author

#8. Now save this book in the DB!

# The end
```

Q14 - Add validations of your choice to the `Author` class. Can we save an object in DB if its validations do not pass?